

We claim:

- 1 1. In a rewritable storage medium, a method for changing a playback speed  
2 of a selected video segment having a progressive frame structure which has  
3 been recorded on a portion of said storage medium comprising the steps of:  
4 modifying said selected video segment for a changed playback speed; and  
5 recording said modified video segment exclusively on said portion of said  
6 medium.
- 1 2. The method according to claim 1, further comprising the step of deleting  
2 a plurality of non-video packs in said selected video segment to reduce an  
3 amount of data contained in said modified video segment.
- 1 3. The method according to claim 1, further comprising the step of reducing  
2 a resolution of at least one frame contained in said modified video segment.
- 1 4. The method according to claim 1, further comprising the step of lowering  
2 a bit rate of said modified video segment during said recording step.
- 1 5. The method according to claim 1, wherein said video segment is  
2 comprised of intra and non-intra frames and said modification comprises the step  
3 of decoding each said intra frame and selectively decoding at least one said non-  
4 intra frame.
- 1 6. The method according to claim 5, further comprising the step of inserting  
2 into said selected video segment at least one of the group consisting of dummy  
3 pictures and repeat pictures.

1 7. The method according to claim 6, wherein the number of said dummy  
2 pictures and said repeat pictures inserted into said selected video segment is  
3 based on said changed playback speed.

1 8. The method according to claim 7, further comprising the step of  
2 selectively decoding and re-encoding said modified video segment for  
3 conventional placement of said dummy pictures, said repeat pictures, and said  
4 intra and non-intra frames.

1 9. The method according to claim 1, wherein said video segment is  
2 comprised of intra and non-intra frames and said modification comprises the step  
3 of decoding all said intra and said non-intra frames.

1 10. The method according to claim 9, further comprising the step of inserting  
2 at least one of the group consisting of dummy pictures and repeat pictures into  
3 said selected video segment.

1 11. The method according to claim 10, wherein the number of said dummy  
2 pictures and said repeat pictures inserted into said selected video segment is  
3 based on said changed playback speed.

1 12. The method according to claim 1, wherein said video segment is  
2 comprised of intra and non-intra frames and said modification comprises the step  
3 of removing at least one frame from the group consisting of said intra and non-  
4 intra frames.

1 13. The method according to claim 1, wherein said video segment is  
2 comprised of intra and non-intra frames and said modification comprises the  
3 steps of:  
4 decoding said intra and non-intra frames; and

5 removing at least one field from at least one of said intra and non-intra  
6 frames.

1 14. A system for changing a playback speed of a selected video segment  
2 having a progressive frame structure recorded on a rewritable storage medium,  
3 comprising:

4 storage medium reading circuitry for selectively reading a video segment  
5 which has been recorded on a portion of said rewritable storage medium;  
6 a video processor for modifying said selected video segment for a  
7 changed playback speed; and  
8 video recorder circuitry for recording said modified video segment  
9 exclusively on said portion of said storage medium.

1 15. The system according to claim 14, wherein said video processor deletes a  
2 plurality of non-video packs in said selected video segment to reduce an amount  
3 of data contained in said modified video segment.

1 16. The system according to claim 14, wherein said video processor reduces  
2 a resolution of at least one frame contained in said modified video segment.

1 17. The system according to claim 14, wherein said video processor lowers a  
2 bit rate of said modified video segment during said recording step.

1 18. The system according to claim 14, wherein said video segment is  
2 comprised of intra and non-intra frames and said video processor decodes each  
3 said intra frame and selectively decodes said at least one said non-intra frame.

1 19. The system according to claim 18, wherein said video processor inserts  
2 into said selected video segment at least one of the group consisting of dummy  
3 pictures and repeat pictures.

1 20. The system according to claim 19, wherein the number of said dummy  
2 pictures and said repeat pictures inserted into said selected video segment is  
3 based on said changed playback speed.

1 21. The system according to claim 20, wherein said video processor  
2 selectively decodes and re-encodes said modified video segment for  
3 conventional placement of said dummy pictures, said repeat pictures and said  
4 intra and non-intra frames.

1 22. The system according to claim 14, wherein said video segment is  
2 comprised of intra and non-intra frames and said video processor decodes all  
3 said intra and said non-intra frames.

1 23. The system according to claim 22, wherein said video processor inserts at  
2 least one of the group consisting of dummy pictures and repeat pictures into  
3 said selected video segment.

1 24. The system according to claim 23, wherein the number of said dummy  
2 pictures and said repeat pictures inserted into said selected video segment is  
3 based on said changed playback speed.

1 25. The system according to claim 14, wherein said video segment is  
2 comprised of intra and non-intra frames and said video processor removes at  
3 least one frame from the group consisting of said intra and non-intra frames.

1 26. The system according to claim 14, wherein said video segment is  
2 comprised of intra and non-intra frames and said video processor:  
3 decodes said intra and non-intra frames; and  
4 removes at least one field from at least one of said intra and non-intra  
5 frames.